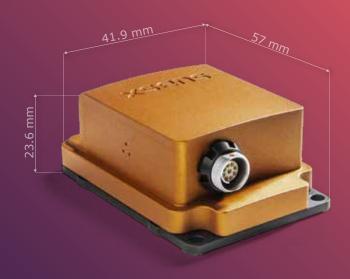
MTi-200

- Movella's high-performance product line
- 0.2 deg in roll/pitch accuracy, ultra low heading drift
- Complete SDK and development kits available

The MTi-200 features vibration-rejecting gyroscopes and offers high-quality inertial data, even in challenging environments.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high-frequency outputs, and has configurable output settings for synchronization with any third-party device.

The MTi-200 is supported by the MT Software Suite which includes MT Manager (GUI for Windows/Linux), SDK, example codes and drivers for many platforms.



- White label and OEM integration options available
- 3D models available on request

Sensor fusion performance

Roll, Pitch	0.2 deg RMS
Yaw/Heading ——————	unreferenced, low drift
Strapdown Integration (SDI)	Yes
Gyroscope	
Standard full range	450 deg/s
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Accelerometer
Standard full range

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In-run bias stability ————	——— 15 μg
Bandwidth (-3dB)	375 Hz
Noise Density	——— 60 μg/√Hz

Magnetometer

Standard full range ——————	+/- 8 G
Total RMS noise	0.5 mG
Non-linearity	0.2%
Resolution	0.25 mG

Barometer

Standard full range —————	300-1100 hPa
Total RMS noise ——————	3.6 Pa
Resolution ——————	~0.08m

This document is informational and not binding.

Complete and detailed specifications are available at
mtidocs.movella.com

Mechanical

IP-rating	IP67
Operating Temperature ———	-40 to 85 °C
Casing material	Aluminum
Mounting orientation ————	No restriction, full 360° in all axe
Dimensions —————	57x41.90x23.60 mm
Connector —————	Fischer SV
Weight ————	55 g
Certifications —————	CE, FCC, RoHS, MIL-STD-202

Electrical

Input voltage ————	3V3, 4.5V-34V
Power consumption (typ)	520 mW

Interfaces / IO

Interfaces —————	USB, RS232, RS422, UART
Sync Options	SyncIn, SyncOut, ClockSync
Protocols —————	Xbus, ASCII (NMEA)
Clock drift	10 ppm (or external)
Output Frequency ————	Up to 2kHz
Built-in-self test	Gyr, Acc, Mag

	- / / / - 3
Software Suite	
GUI (Windows/Linux)	MT Manager, Firmware updater,
	Magnetic Field Mapper
SDK (Example code)	C++, C#,Python, Matlab, Nucleo,
	public source code
Drivers —	LabVIEW, ROS, GO
Support —	Online manuals, community and
	knowledge base



